	Application No.	Applicant(s)
	09/484,303	AHN ET AL.
Notice of Allowability	Examiner	Art Unit
	W. David Coleman	2823
The MAILING DATE of this communication applications being allowable, PROSECUTION ON THE MERITS IS erewith (or previously mailed), a Notice of Allowance (PTOL-85) OTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in ) or other appropriate commu IGHTS. This application is s	this application. If not included nication will be mailed in due course. THIS
☐ This communication is responsive to <u>July 10, 2006</u> .		
☐ The allowed claim(s) is/are 65-75.	•	
. ☐ Acknowledgment is made of a claim for foreign priority un a) ☐ All b) ☐ Some* c) ☐ None of the:		or (f).
Certified copies of the priority documents have		
2. Certified copies of the priority documents have	• •	
<ol><li>Copies of the certified copies of the priority do</li></ol>	cuments have been received	I in this national stage application from the
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file IENT of this application.	a reply complying with the requirements
A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
CORRECTED DRAWINGS (as "replacement sheets") must	st be submitted.	
(a) including changes required by the Notice of Draftspers	son's Patent Drawing Review	( PTO-948) attached
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date	e.	
(b) including changes required by the attached Examiner' Paper No./Mail Date	s Amendment / Comment or	in the Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the sheet sheet as such in the sheet shee		
☐ DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT		
	•	
ttachment(s)	_	
☐ Notice of References Cited (PTO-892)		ormal Patent Application
☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Su Paper No./	ımmary (PTO-413), Mail Date

# 2. Notice of

- 1. Notice of
- 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 07/06; 09/06
- 4. 

  Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 7. Examiner's Amendment/Comment
- 8. 

  Examiner's Statement of Reasons for Allowance
- 9. Other \_\_\_\_.

# **DETAILED ACTION**

#### Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after allowance or after an Office action under *Ex Parte Quayle*, 25 USPQ 74, 453 O.G. 213 (Comm'r Pat. 1935). Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on July 10, 2006 has been entered.

### Information Disclosure Statement

2. The information disclosure statement (IDS) submitted on July 10, 2006 and September 19, 2006 was filed after the mailing date of the Allowance on March 10, 2006. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

## Allowable Subject Matter

- 3. Claims 65-75 allowed.
- 4. The following is an examiner's statement of reasons for allowance: the prior art does not anticipate nor render obviousness as to forming a diffusion barrier layer on and exposed lower surface of the conductive line and the conductive plug between the conductive line and the substrate.
- 5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

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fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### Conclusion

- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to W. David Coleman whose telephone number is 571-272-1856.

  The examiner can normally be reached on Monday-Friday 9:00 AM 5:30 PM.
- 7. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matt Smith can be reached on 571-272-1907. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.
- 8. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

W. David Coleman Primary Examiner Art Unit 2823

**WDC**